

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1-73. (Canceled)

74. (Currently Amended) An antibody specific for a ~~The antibody as defined in claim 73, wherein the~~ mammalian Presenilin protein ~~has a~~ having an amino acid sequence as depicted in SEQ ID Nos: 2, 4, 134, 136, or 138.

75. (Currently amended) The antibody as defined in claim ~~73~~ 74, which ~~selectively recognizes~~ is specific for an amino acid sequence of at least six contiguous amino acid residues ~~as depicted in~~ of SEQ ID NOs: 2, 4, 134, 136, or 138; or antigenic fragments.

76. (Currently Amended) The antibody as defined in claim 75, wherein the antibody ~~selectively recognizes~~ is specific for amino acid residues 30-44, 109-123, 304-318, or 346-360 of SEQ ID Nos: 2 or 134.

77. (Currently amended) The antibody as defined in claim ~~73~~ 74, which is a monoclonal antibody.

78. (Currently amended) The antibody as defined in claim ~~73~~ 74, which is a humanized antibody.

79. (Currently amended) A hybridoma for producing the antibody as defined in claim ~~73~~ 74.

80. (Currently amended) A method for detecting the presence of a mammalian Presenilin protein in a biological sample, the method comprising:

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- (i) contacting the biological sample with an antibody as defined in claim ~~73~~ 74,
 - (ii) incubating the sample and the antibody under conditions to induce binding of the antibody to the sample to form a complex,
 - (iii) separating the complex from the sample, and
 - (iv) detecting the complex.

81. (Currently amended) The method as defined in claim 80, wherein the ~~mammalian Presenilin protein has a sequence as depicted in~~ antibody is specific for amino acid residues 30-44, 109-123, 304-318, or 346-360 of SEQ ID Nos: 2, ~~4~~, or 134, ~~136~~, or 138.